

WHAT IS CLAIMED IS:

1. A spark plug for the controlled burning of a fuel/air mixture at a defined burn zone within a combustion chamber in the cylinder of an internal combustion engine comprising:

an elongated electronically non-conductive body;

an ignitor electrode supported by said non-conductive body and having a distal tip extending into said burn zone;

an elongated conductive body surrounding said non-conductive body and having a horn nozzle surrounding said tip in spaced-apart relationship; and

at least two posts joining said horn nozzle with said conductive body and to hold said horn nozzle in spaced-apart relationship with respect to said conductive body to define said burn zone.

2. The spark plug defined in Claim 1 including:

vent slots provided in said burn zone by said posts for exhausting gasses therethrough exteriorly of said horn nozzle.

3. The spark plug defined in Claim 2 wherein:

said horn nozzle is circular having a conical inner side wall terminating adjacent said tip with a reduced throat diameter and terminating exteriorly with an enlarged mouth of greater diameter than the diameter of said throat diameter.

4. The spark plug defined in Claim 3 wherein:  
said distal tip of said ignitor electrode is spherical  
and partially resides within said throat of said horn nozzle.

5. The spark plug defined in Claim 4 wherein:  
said ignitor electrode is bendable for adjustment with  
respect to distance from said horn nozzle with said throat.

6. A spark plug for the controlled burning of a fuel/air  
mixture at a defined burn zone within a combustion chamber in  
the cylinder of an internal combustion engine comprising:

- a non-conductive body;
- a conductive body supporting said non-conductive body;
- an ignitor electrode carried by said non-conductive body  
having an exposed distal tip of rounded configuration;
- a ground electrode supported by said conductive body and  
having a horn nozzle with a frustum-conical passageway defined by  
a tapered inner wall leading from a mouth to a throat partially  
encircling said distal tip of said ignitor electrode; and
- a pair of posts integrally connecting said non-conductive  
body with said horn nozzle to define venting slots between said  
conductive body and said horn nozzle.